

catalytic reduction of oxygen and hydrogen peroxide by - nanoporous gold npg made by dealloying silver gold alloys is a mesoporous metal combining high surface area and high conductivity recently npg has been shown to exhibit some of the high catalytic activity previously associated only with supported gold nanoparticles, **colloidal nanocrystals for heterogeneous catalysis** - although the discovery and synthesis of colloidal materials is well known and has been exhaustively documented in past reviews 5 8 recent advances in synthesis and characterization have allowed scientists to find applications for colloidal materials in many new fields especially catalysis by looking at publication records it is clear that the rapid growth of publications involving, **2d transition metal dichalcogenide nanosheet based** - hydrogen h₂ is one of the most important clean and renewable energy sources for future energy sustainability nowadays photocatalytic and electrocatalytic hydrogen evolution reactions hers from water splitting are considered as two of the most efficient methods to convert sustainable energy to the clean energy carrier h₂ catalysts based on transition metal dichalcogenides tmds are, **metal organic framework wikipedia** - structure mofs are composed of two major components a metal ion or cluster of metal ions and an organic molecule called a linker for this reason the materials are often referred to as hybrid organic inorganic materials however this terminology has recently been explicitly discouraged the organic units are typically mono di tri or tetravalent ligands, **doping induced structural phase transition in cobalt** - transition metal dichalcogenide materials have been explored extensively as catalysts to negotiate the hydrogen evolution reaction but they often run at a large excess thermodynamic cost, **self assembly as a key player for materials** - abstractthe development of science and technology of advanced materials using nanoscale units can be conducted by a novel concept involving combination of nanotechnology methodology with various research disciplines especially supramolecular chemistry the novel concept is called nanoarchitectonics where self assembly processes are crucial in many cases involving a wide range of, **three dimensional ordered porous electrode materials for** - the past decade has witnessed substantial advances in the synthesis of various electrode materials with three dimensional 3d ordered macroporous or mesoporous structures the so called, **journal of nanoscience and nanotechnology** - jnn is a multidisciplinary peer reviewed journal covering fundamental and applied research in all disciplines of science engineering and medicine, **innovative design integrated manufacturing idim lab** - 271 jung w k kim h j park y c lee j w and ahn s h tbd smart sewing work measurement system using iot based power monitoring device and

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